

## DAILY FIELD ACTIVITY REPORT

**PROJECT NAME:** Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site

<b>DATE:</b> April 28, 2018	<b>WEATHER:</b> Overcast with showers, temperatures in the ~50s, patches of sun
<b>Personnel and Visitors Onsite:</b> Research vessel Cayuse – <u>CDM Smith</u> : Kyle Vickstrom; <u>AECOM</u> : Michaela McCoog; <u>Geosyntec</u> : Alison Clements; <u>Gravity Marine</u> : John Schaefer, Jeff Schut Research vessel Tieton - <u>CDM Smith</u> : Mary Lou Fox; <u>AECOM</u> : Anthony Palmieri ; <u>Geosyntec</u> : Luke Smith; <u>Gravity Marine</u> : Rene Trudeau, Maggie Mckeen.	
<b>Planned Activity:</b> <ul style="list-style-type: none"><li>Collect surface sediment samples at random stratified sample locations near river mile (RM) 10 E and along the eastern shore starting at River Mile 11.4 and moving northwest along the shore</li></ul>	
<b>Activity Completed:</b> <p>A tailgate safety meeting was led by AECOM. Topics included using 3 points of contact when onboarding and offboarding, slips/trips/falls, exclusions zones on the vessel, and what to do in the event of potential thunderstorms later in the afternoon. Other topics included housekeeping, hydration, pinch points, heat stress, location of emergency supplies, commutation and readiness for unexpected boating hazards (waves, debris, etc), boat traffic. The AECOM/Geosyntec interim sampling protocol were also discussed prior to disembarking.</p> <p>Kyle Vickstrom performed oversight of surface sediment sampling at random stratified locations from 08:00 to 17:40 on board the Cayuse. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:</p> <ul style="list-style-type: none"><li>Position checks at PH-2 indicated that the vessel GPS was reading within 1.1 meters of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.</li><li>3-point composite surface sediment samples were collected from 8 random stratified sampling locations between approximately RM 9.5 and 10.2 East as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.</li><li>Duplicate sample was collected as summarized below</li></ul> <p>Mary Lou Fox performed oversight of surface sediment sampling at random stratified locations from 08:00 to 18:00 on board the Tieton. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:</p> <ul style="list-style-type: none"><li>3-point composite surface sediment samples were collected from 5 random stratified sampling locations from locations between RM 11.4 to 10.75 East, approximately. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.</li><li>One additional location was attempted, but not completed (SG-B398)</li><li>Position checks at PH-2 indicated that the vessel GPS was reading within 1 meters of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.</li></ul>	
<b>Status of Schedule &amp; Priority Work:</b> <ul style="list-style-type: none"><li>The random stratified sampling will continue through the weekend to complete targeted locations on the west side of the river sampling and return to skipped locations throughout the river. AECOM/Geosyntec are focusing on locations where good recovery is easily achieved, and occasionally skipping locations they feel they may be able to get better recoveries with different equipment. SMA sampling may begin before stratified random sampling is complete if access agreements and sampling procedures are not resolved in time to sample at applicable locations.</li><li>Locations on private property are being skipped until access agreements are obtained.</li><li>Sample locations in areas of known/encountered heavy sheen contamination are planned to be skipped and returned to with support from NRC Environmental Services to contain sheen during sampling.</li><li>Sampling is taking more time than initially projected.</li></ul>	
<b>Issues/Concerns/Resolutions (include work performed that was not planned or anticipated):</b> <p>New sampling protocols for sampling hard sediment that had been proposed by AECOM to EPA on 4/27/2018 but not approved were used to collect samples at two locations on the Tieton. EPA had advised that proceeding with this sampling without EPA approval was at AECOM's own risk. Later in the morning, EPA advised that AECOM's proposed sampling protocol was not acceptable and that they needed to follow the procedure that EPA had provided on 4/20/2018</p>	

or skip the location where hard sediment was encountered. Subsequent hard sediment locations were skipped by the contractor.

On the Tieton, maximum possible weight of 150 pounds was used with the grab sampler for many grabs until areas where over penetration was occurring were encountered. Locations B-398 and B404 were skipped (B-398 for repeated grabs failed due to debris/cobbles/gravel that prevented the sampler from closing properly and B-404 for underwater cable proximity to location and alternate location.

**Samples Collected, Measurements Made, Photographs: (List Locations, Matrix & Sample type):**

On the Cayuse, stratified random surface sediment samples were collected at following locations between approximately RM 9.5 and 10.2 E:

- PDI-SG-B345-BL1 – Within 25 ft radius, silt
- PDI-SG-B341-BL1 – Within 25 ft radius, silty sand
- PDI-SG-B339-BL1 – Within 25 ft radius, silt with silty sand and trace gravel
- PDI-SG-B347-BL1 – Within 25 ft radius, silt with trace fine sand; duplicate collected
- PDI-SG-B340-BL1 – Within 25 ft radius, silt with trace organics
- PDI-SG-B343-BL1 – Within 25 ft radius, silt with trace organics and sandy silt
- PDI-SG-B350-BL1 – Within 25 ft radius, silt with trace organics
- PDI-SG-B360-BL1 – Within 25 ft radius, silt with trace organics

On the Tieton, stratified random surface sediment samples were collected between RM 11.4 and 10.75 East, and in the western portion of the navigation channel:

- PDI-SG-B408-BL1 – Within 25 ft radius, sandy silt
- PDI-SG-B405-BL1 – Within 50 ft radius, sandy silt
- PDI-SG-B400-BL1 – Within 50 ft radius, sandy silt to wavy silt with fine sands
- PDI-SG-B386-BL1 – Within 25 ft radius, dark brown silt, trace fine sands, black silt
- PDI-SG-B385-BL1 – Within 25 ft radius, dark brown sandy silt

Note: Sediment descriptions are simplified and AECOM/Geosyntec provided more detailed sediment descriptions in their sampling notes.

Photographs of work were taken throughout the day and provided to EPA via email. Additional photos were taken and archived with a description included in the photolog Excel spreadsheet, which are maintained electronically in the ProjectWise project folder.

**Borings Completed (Include total footage drilled for each boring):**

None

**Wastes Generated and How Handled:**

- Excess sediment and debris in the power grab sampler and in the sampling bowls was rinsed back into the river per the FSP. No heavy sheen was observed.
- Disposable gloves, paper towels, and other general trash was containerized in a trash bag and removed daily as needed for disposal to a municipal waste management dumpster.

**Health and Safety Issues, Equipment Needs, Staffing:**

None

**Signature:** \_\_\_\_\_  
Kyle Vickstrom; Mary Lou Fox

**DATE** \_\_\_\_\_  
April 28, 2018

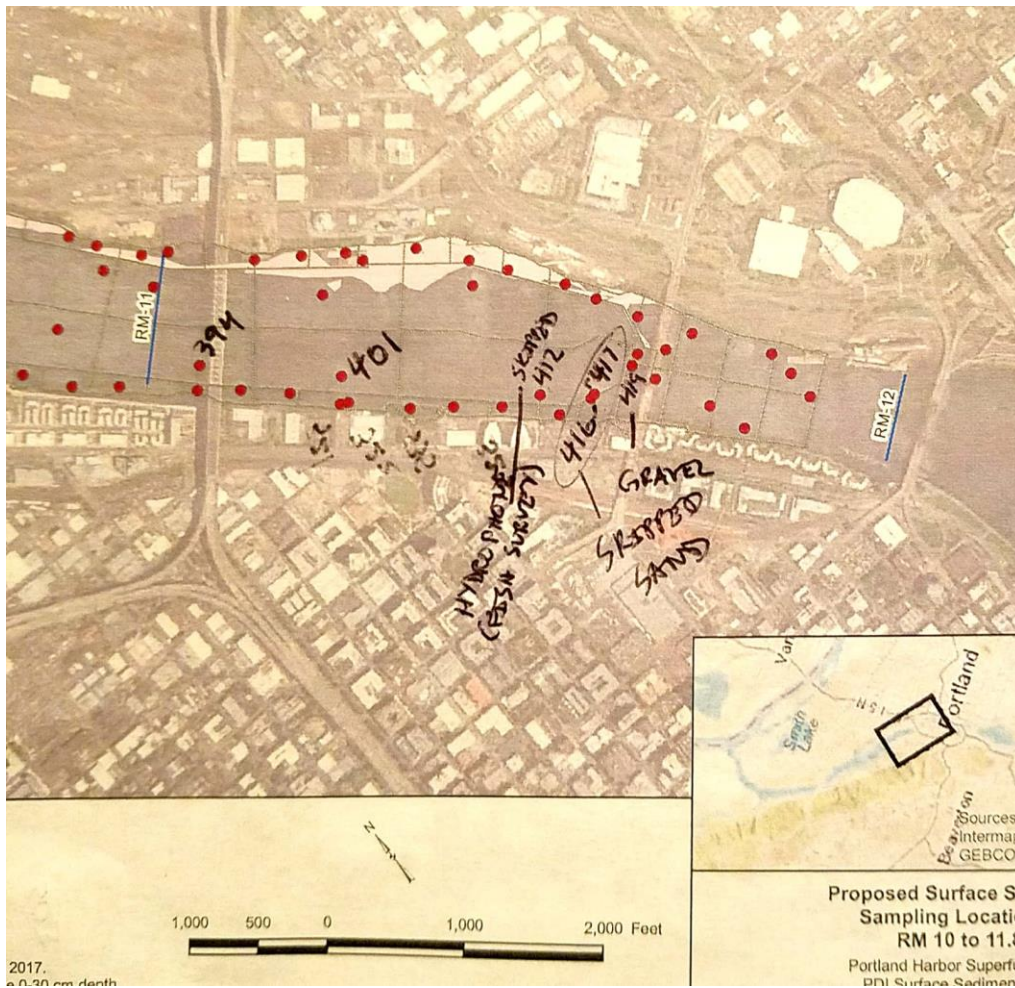


Figure 1: Field location notes (Tieton)